

DONGSHENG DUAN'S PUBLICATIONS

Books

- 2011 — Muscle Gene Therapy: Methods and Protocols. Humana Press, New York, NY (Duan, D. editor)
- 2010 — Muscle Gene Therapy, Springer, New York, NY (Duan, D. editor) All Publications

All Publications

2021

- [Duan D, Goemans N, Takeda S, Mercuri Eugenio, Aartsma-Rus A.](#) *Duchenne muscular dystrophy.* **Nature Reviews Disease Primers** 7(1):13, **2021**. PMID: 33602943, DOI: 10.1038/s41572-021-00248-3
- [Mareedu S, Million ED, Duan D, Babu GJ.](#) *Abnormal Ca⁺⁺ handling in Duchenne muscular dystrophy: mechanisms and potential therapies.* **Frontiers in Physiology** 12:647010, **2021**. PMID: 33897454, PMCID: PMC8063049, DOI: 10.3389/fphys.2021.647010
- [Apkon S, Kinnett K, Cripe L, Duan D, Jackson JL, Kornegay JN, Mah ML, Nelson SF, Rao V, Scavina M, Wong BL, Flanigan KM.](#) *Parent Project Muscular Dystrophy: females with dystrophinopathy conference. Orlando Florida, June 26-27, 2019.* **Journal of Neuromuscular Diseases** 8(2):315-322, **2021**. PMID: 33361607, DOI: 10.3233/JND-200555
- [Fortin JS*, Hakim CH, Korte S, Johnson GC, Duan D*.](#) *Widespread severe myodegeneration in a compound heterozygote female dog with dystrophin deficiency.* **Veterinary Medicine and Science** 7(3):654-659, **2021**. (*, co-corresponding author) PMID: 33502125, PMCID: PMC8136971, DOI: 10.1002/vms3.433
- [Kodippili K, Thorne PK, Laughlin MH, Duan D.](#) *Dystrophin deficiency impairs vascular structure and function in the canine model of Duchenne muscular dystrophy.* **Journal of Pathology** 254(5):589-605, **2021**. PMID: 33999411, DOI: 10.1002/path.5704
- Wang H, Marrosu E, Brayson D, Wasala NB, Johnson EK, Scott CS, Yue Y, Hau K, Trask AJ, Zhang L, Froehner SC, Adams ME, [Duan D](#), Montanaro F. *Biochemical characterization of micro-dystrophin reveals a role for cavins and ERK in DMD cardiomyopathy.* **Human Molecular Genetics**, **2021**. **In-**
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- [Lyu P, Yoo, KW, Yadav MK, Atala A, Aartsma-Rus A, Putten MV, Duan D, Lu B.](#) Sensitive and reliable evaluation of single-cut sgRNAs to restore dystrophin by a GFP-reporter assay. **PLoS One** 15(9):e0239468, 2020.
- [Zhao J, Yue Y, Patel A, Wasala LP, Karp JF, Zhang K, Duan D*, Lai Y*.](#) High-Resolution Histological Landscape of AAV DNA Distribution in Cellular Compartments and Tissues following Local and Systemic Injection. **Molecular Therapy-Methods & Clinical Development** 18:856-868, 2020. (*, co-corresponding author).
- [White Z, Hakim CH, Theret M, Yang NN, Francis G, Cox D, Straub V, Rossi F, Duan D*, Panagiotopoulos C, Bernatchez P*.](#) High prevalence of plasma lipid abnormalities in human and canine Duchenne and Becker Muscular Dystrophies depicts a new type of primary genetic dyslipidemia. **Journal of Clinical Lipidology**. 2020 May 29; S1993-2874 (20)30196-3. Doi:10.1016/j.jacl.2020.05.098 Online ahead of print. PMID: 32593511 (*, co-corresponding author)
- [Duan D.](#) Laying the foundation for neuromuscular disease gene therapy. **Human Gene Therapy** 31(15-16):785-786, 2020.
- [Hakim CH, Clement N, Wasala LP, Yang HT, Yue Y, Zhang K, Kodippili K, Adamson-Small L, Pan X, Schneider JS, Yang NN, Chamberlain JS, Byrne BJ, Duan D.](#) Micro-dystrophin AAV vectors generated by transient transfection and herpesvirus system are similarly effective in protecting muscle disease in dystrophic mice. **Molecular Therapy-Methods & Clinical Development** 18:664-678, 2020. PMCID: PMC7403893 PMID: 32775499
- [Nance ME, Ravanfar M, Messler M, Duan D*, Yao G*.](#) PSOCT imaging of muscle degeneration and regeneration in a canine muscle xenograft model. **Biomedical Optics Express** 2020 Apr 6;11(5):2383-2393. doi: 10.1364/BOE.390936. eCollection 2020 May 1. PMID: 32499931 (*, co-corresponding author)
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- [Yao G, Duan D.](#) High-resolution 3D tractography of fibrous tissue based on polarization-sensitive optical coherence tomography. **Experimental Biology and Medicine** 245(4):273-281, 2020.
- [Chiao YA, Zhang H, Sweetwyne M, Whitson J, Ting YS, Basisty N, Pino L, Quarles E, Nguyen NT, Campbell M, Zhang T, Gaffrey MJ, Merrihew G, Wang L, Yue Y, Duan D, Granzier H, Szeto HH, Qian W-J, Marcinek D, MacCoss MJ, Rabinovitch PS.](#) Late-life restoration of mitochondrial function reverses cardiac dysfunction in old mice. **Elife** 9:e55513, 2020.
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- Nance ME, [Duan D](#). Development of next generation muscle gene therapy vectors. **Muscle Gene Therapy 2nd edition** (Publisher: Springer.) Duan D and Mendel JR (Ed.), In-press, **2019**.
- [Duan D](#). Considerations on preclinical muscle gene therapy studies. **Muscle Gene Therapy 2nd edition** (Publisher: Springer.) Duan D and Mendel JR (Ed.), In-press, **2019**.
- Lai Y, [Duan D](#). Design of muscle gene therapy expression cassette. **Muscle Gene Therapy 2nd edition** (Publisher: Springer.) Duan D and Mendel JR (Ed.), In-press, **2019**.
- [Wasala LP, Hakim CH, Yue Y, Yang NN, Duan D](#). Systemic delivery of adeno-associated viral vectors in mice and dogs. **Methods in Molecular Biology** 1937:281-294, **2019**.

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- [Wasala NB, Shin J-H, Lai Y, Yue Y, Duan D](#). Cardiac specific expression of Δ H2-R15 mini-dystrophin normalized all ECG abnormalities and the end-diastolic volume in a 23-m-old mouse model of Duchenne dilated cardiomyopathy. **Human Gene Therapy** 29(7):737-748, **2018** ([Journal cover image](#))
- [Patel A, Zhao J, Yue Y, Zhang K, Duan D*](#), [Lai Y*](#). Dystrophin R16/17-syntrophin PDZ fusion protein restores sarcolemmal nNOS μ . **Skeletal Muscle** 8:36, **2018**. <https://doi.org/10.1186/s13395-018-0182-x> (*, co-corresponding author).
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